

L Number	Hits	Search Text	DB	Time stamp
1	6555	pharmacokinetic	USPAT	2003/12/14 17:01
2	140	pharmacokinetic and biosensor\$	USPAT	2003/12/14 17:05
3	64	((pharmacokinetic and biosensor\$) and (surface adj2 plasmon adj2 resonance))	USPAT	2003/12/14 17:06
4	59	((pharmacokinetic and biosensor\$) and (surface adj2 plasmon adj2 resonance)) and drug	USPAT	2003/12/14 17:06
5	7	((((pharmacokinetic and biosensor\$) and (surface adj2 plasmon adj2 resonance)) and drug) and parameter	USPAT	2003/12/14 17:06

AB A method and app. for assaying a drug candidate with a *****biosensor***** having one or more sensing surface-bound biomols. assocd. therewith are disclosed. The method comprises measuring the binding interaction between the drug candidate and the one or more sensing surface-bound biomols. of the *****biosensor***** to obtain an est. of at least one binding interaction parameter of the drug candidate, and then comparing the estd. binding interaction parameter against a math. expression correlated from binding interaction data assocd. with known drug compds. to det. an est. of at least one *****pharmacokinetic***** parameter of absorption, distribution, metab., or excretion (ADME) that is related to the drug candidate. The invention allows for the simultaneous measurement of different *****pharmacokinetic***** parameters of the drug candidate, as well as an indication of the drug candidate's soly., by use of a single anal. instrument. The *****pharmacokinetic***** data may be represented as a ADME characterization profile; such ADME profiles are of great utility for purposes of drug screening and lead optimization.

ST drug screening pharmacokinetics *****biosensor***** app; soly drug screening pharmacokinetics *****biosensor*****

Biochemical molecules

Biosensors

Blood

Blood plasma

Blood-brain barrier

Carbonyl group

Carboxyl group

Computer application

Drug bioavailability

Drug metabolism

Drug screening

Epoxy group

Formyl group

Hydrogels

Hydroxyl group

Liposomes

Michaelis constant

Molecular association

Partition

Pharmacokinetics

Solubility

Urine

(***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Transport proteins

.alpha.1-Acid glycoprotein

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Polysaccharides, biological studies

RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Adipose tissue

(blood-adipose tissue partitioning; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Muscle

(blood-muscle partitioning; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Placenta

(blood-placenta barrier; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Proteins, general, biological studies

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(blood; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Biliary tract

Kidney

Liver

(clearance; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Animal tissue

(drug binding; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Metals, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(free electron, sensor chip with; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Milk

(human, blood-human milk partitioning; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Intestine

(intestinal absorption; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Proteins, specific or class

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL

(ligand-binding; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Metabolism
(metabolic enzymes; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Enzymes, biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(metabolic; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Sensors
(sensor chips; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Albumins, biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(serum; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Surface plasmon
(surface plasmon resonance; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Functional groups
(vinyl group; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT Polymers, biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(water-swellaible; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT 81-81-2, Warfarin
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT 50-47-5, Desipramine 50-99-7, D-Glucose, biological studies 52-53-9, Verapamil 53-03-2, Prednisone 54-31-9, Furosemide 56-54-2, Quinidine 57-41-0, Phenytoin 58-14-0, Pyrimethamine 58-32-2, Dipyridamole 58-93-5, Hydrochlorothiazide 60-80-0, Antipyrine 61-90-5, L-Leucine, biological studies 69-65-8, Mannitol 69-72-7, Salicylic acid, biological studies 91-64-5, Coumarin 130-95-0, Quinine 298-46-4, Carbamazepine 439-14-5, Diazepam 512-69-6, Raffinose 525-66-6, Propranolol 599-79-1, Sulfasalazine 1197-18-8, Tranexamic acid 4428-95-9, Foscarnet 4618-18-2, Lactulose 6452-71-7, Oxprenolol 9035-51-2, Cytochrome P450, biological studies 13292-46-1, Rifampicin 13523-86-9, Pindolol 15676-16-1, Sulpiride 18559-94-9, Salbutamol 22071-15-4, Ketoprofen 22204-53-1, Naproxen 23031-25-6, Terbutaline 26787-78-0, Amoxicillin 26839-75-8, Timolol 29122-68-7, Atenolol 36322-90-4, Piroxicam 37517-30-9, Acebutolol 51384-51-1, Metoprolol 54827-14-4, Ganglioside GM3 65277-42-1, Ketoconazole 74050-98-9, Ketanserine 124937-51-5, Tolterodine 136817-59-9, Delavirdine 155213-67-5, Ritonavir 174484-41-4, Tipranavir
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT 9004-54-0, Dextran, biological studies 9044-05-7, Carboxymethyl dextran
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT 124-30-1, Stearylamine 18194-24-6 26853-31-6, 1-Palmitoyl-2-oleoylsn-glycero-3-phosphocholine
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

IT 7429-90-5, Aluminum, biological studies 7440-22-4, Silver, biological studies 7440-50-8, Copper, biological studies 7440-57-5, Gold, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(sensor chip with; ***biosensor*** app. and method for assaying drug candidate to est. assocd. ***pharmacokinetic*** parameter)

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(FILE 'HOME' ENTERED AT 16:42:49 ON 14 DEC 2003)

FILE 'CA' ENTERED AT 16:42:55 ON 14 DEC 2003

L1 36261 S PHARMACOKINETIC
L2 8 S L1 AND BIOSENSOR?
L3 8 S L1 AND SURFACE(W)PLASMON(W)RESONANCE
L4 0 S L1 AND MATHEMATICAL(W)EXPRESSION

FILE 'MEDLINE' ENTERED AT 16:46:49 ON 14 DEC 2003

L5 4 S L2
L6 0 S L5 NOT L2
L7 9 S L3
L8 0 S L7 NOT L3

FILE 'USPATFULL' ENTERED AT 16:48:46 ON 14 DEC 2003

L9 9546 S L1
L10 309 S L2
L11 501 S L3
L12 135 S L10 AND SURFACE PLASMON RESONANCE
L13 1 S L12 AND MATHEMATICAL EXPRESSION?
L14 132 S L12 AND DRUG?
L15 126 S L14 AND PARAMETER?
L16 31 S L15 AND HYDROGEL?

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